

# Digital Plan Submittal

## Purpose

The purpose of Digital Plan Submittal is to obtain digital vector line work. Surveyors and engineers are required to submit an extract of their computer-aided drafting and design (CAD) drawing file along with hardcopy prints.

## General CAD Standard

The General CAD Standard is as follows:

1. Digital files must be submitted in AutoCAD 2010 or newer in .DWG or .DXF file formats
2. Digital files must be delivered by one of the following methods: CD-ROM, DVD, Flash Drive, FTP, or online file storage (e.g. Dropbox).
3. Digital files should include current ALTA/ACSM survey.
4. Coordinate reference system must be in Arizona State Plane based on NAD83 Arizona Central FIPS 0202 units in International Feet  
(*NAD\_1983\_StatePlane\_Arizona\_Central\_FIPS\_0202\_Feet\_Intl*).
5. Each plan or plat drawing shall contain all infrastructure layers and annotations, lot assignments with numbers, dimensions, right-of-ways, street names, section lines, subdivision boundary, etc., referencing no less than (2) Pinal County Control Network monuments as surveyed under Public Land Survey System (PLSS), Gila & Salt River Meridian (GSRM).
6. Digital line work must be topologically clean without slivers, dangles, undershoots or inappropriate breaks. Polygon features drawn as polylines should connect properly and close completely without gaps.
7. All/Any XREFs within the drawing file MUST BE INSERTED/BOUND TO THE DRAWING FILE.
8. Drawings are to be purged of all extraneous information, shall be “bound” to insert all reference files and shall be accompanied by any nonnative fonts.
9. The AutoCAD file(s) will be verified, and if inaccurate, will need to be corrected and the drawing resubmitted.

## (optional) ESRI GIS Shapefiles: Point, Lines and Polygons Feature Types

1. Files shall comply to General CAD Standard with alias layer names in annotations.
2. Coordinate reference system must be in Arizona State Plane based on NAD83 Arizona Central FIPS 0202 units in International Feet  
(*NAD\_1983\_StatePlane\_Arizona\_Central\_FIPS\_0202\_Feet\_Intl*).
3. ESRI Shapefiles (.shp) shall be submitted complete with cadastral coordinates (.prj) and all other necessary component files.